



Development of Regional Joint Master Program in Maritime Environmental Protection and Management - MEP&M -

PMB meeting

Prof. Dr. Danilo Nikolić

@ Faculty of Maritime Studies Kotor, University of Montenegro

July 12th 2022

Project no. 619239-EPP-1-2020-1-ME-EPPKA2-CBHE-JP





Tuesday, July 12th 2022 – Moderator: Danilo Nikolic

14:00 – 14:10	Registration of participants
14:10 – 14:15	Official opening
14:15 – 15:15	WP2 DEV 2.1: Development of master program curricula Presentation of proposed curricula (UoM, UV, UAMD), Discussions, Adoption of MEP&M curricula
15:15 – 15:45	WP2 Dev 2.4 Accreditation of master program curricula Status on accreditation procedure of MSc MEP&M, Discussions
15:45 – 16:15	WP3 DEV 3.1 Procurement of equipment and e-book Status on implementation, Discussions
16:15 – 16:45	WP4 DEV 4.2 Development and implementation of Internal Quality Control and Monitoring Plan Status on implementation of Internal Quality Control and Monitoring Plan, Discussions
16:45 – 17:15	WP6 DEV 6.4 Periodic and final reports to EACEA Status on preparation of periodic report, Discussion
17:15 – 17:30	Other project activities Discussions
17:30	Closure of the day

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WP2 DEV 2.1: Development of master program curricula

Expected Deliverable/Results / Outcomes	Work Package and Outcome ref.nr	2.1.	
	Title	Development of master program curricula	
	Type	Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report Service/Product
	Description	<p>The outcomes of the DEV 1.3 will be used as guidelines for developing MSc in MEP&M curricula with course catalogues. Course catalogues will cover: aim of the module; expected learning outcomes in terms of knowledge, skills, competencies; proposed training methods; duration; ECTS assigned; methods and criteria for learner's assessment; resources; suggested lecturers; etc.</p> <p>In the process of preparing curricula and course catalogues EU partners and non-academic partners will assist in terms of reviewing their synchronisation with Bologna Declaration, Lisbon Strategy, national and EU laws and strategies in the field of MEP&M listed in D1. This activity will be summarized at the 2-day event that will be organized by P1. At least three team members from HEIs and two team members from non-academic partner institution will participate. A report with course catalogues will be delivered</p>	
	Due date	15-06-2022	
	Languages	English, Montenegrin and Albanian	

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#	Sem.	Course title	# of hours	ECTS	O/E
1	I	Research skills, methods and tools	2+2+0	10	O
2	I	Fundamentals of environmental science, pollution and sustainable development	2+2+0	10	O
3	I	Introduction to the Blue Economy	2+2+0	10	O
4	II	Marine ecology and conservation	2+1+1	10	O
5	II	Marine environmental pollution and prevention	2+1+1	10	O
6	II	GHG emission and climate change mitigation policies	2+1+1	10	O
7	III	Environmental management standards and Impact Assessment	2+2+0	10	O
8	III	Elective course #1	2+1+1	10	E
9	III	Elective course #2	2+1+1	10	E
		Sustainable Development of Maritime transport and ports			
		Sustainable Development of Coastal tourism			
		Management of offshore energy and mineral resources			
		Fisheries management			
		Integrated Coastal Management			
		Management of protected marine areas and species			
		Maritime safety and security			
		Entrepreneurship & Blue Innovation			
13	IV	Professional practice/research		12	
14	IV	Master degree thesis		18	

Legend:



Categories	A	B	C	D	E
Obligatory %	(5-10%)	(50-60%)	(12-20%)	10%	10-20%
Obligatory ECTS	6-12	60-72	14,4-24	12	12-18
Achieved ECTS	10	60	20	12	18

- A BASIC SUBJECT – methodological preparation and general culture
- B CHARACTERISTIC SUBJECT – preparation for scientific discipline
- C INTERDISCIPLINARY/INTEGRATING SUBJECT – subdisciplines, profile, and subject group with the election
- D ADDITIONAL SUBJECT – professional practice
- E CONCLUDING OBLIGATIONS



Subject title	GHG emission and climate change mitigation policies			
Subject code	Subject status	Semester	ECTS	Class load
	Obligatory	II	10	2L+1E+1P
STUDY PROGRAMMES FOR WHICH IT IS ORGANIZED: Academic master degree program in Maritime environmental protection and management, 2 years, 120 ECTS				
ADMISSION REQUIREMENT: No prerequisites for course enrolment and attending				
GOALS OF STUDY: This module covers the scientific, legal and societal aspects of climate change. First, students will examine the science of climate change, the physics of the greenhouse effect, the current state of the descriptors (GHG, temperature, water...), and the expected consequences of the latest IPCC reports. The international legal and political framework of climate change will also be discussed, especially regarding shared responsibilities and ongoing discussions and the history of emissions. A particular focus will be brought on how to react, both on mitigation and adaptation. Mitigation, which aims at reducing greenhouse gas emissions and carbon sequestration, notably through nature-based solutions. And adaptation, which aims to reduce the vulnerability of natural and human systems against the effects of climate change, and thus to safeguard our societies. The issue of financing climate change will be addressed, both in terms of financing response mechanisms and the cost of the consequences. All these elements will be put into perspective in the context of climate change planning.				
NAME AND SURNAME OF PROFESSOR AND ASSISTANT: UoM - Prof. Danilo Nikolić, MSc Radmila Gagić; UD - Prof. Milidin Bakalli, Prof. Erjola Keçi, Dr. Stela Sefa.; UV - Prof. Anisa Myrtaj,				
TEACHING METHOD: Lectures and debates. The course consists of lectures and discussion sessions. There is a large volume of reading, mostly from the scientific literature. Group work and presentations will be part of the teaching.				

SUBJECT CONTENT:	
Preparatory weeks	Preparation and semester enrolment
I week	Introduction to the subject. History of climate change and global warming. Science and impact of climate change and global warming. Nikolic, Gagic
II week	Science and impact of climate change and global warming continued. Nikolic, Gagic
III week	Energy. Primarily sources of energy. Fossil fuels. Crude oil. Natural gas. Coal. Nikolic, Gagic
IV week	Observed Trends and Impacts of Climate Change. Possible consequences of climate change and global warming. Nikolic, Gagic
V week	International Legal and Policy Framework to Address Climate Change. Albanian teams
VI week	Technological options to reduce GHG emissions: Renewable – wind energy. Albanian teams
VII week	Technological options to reduce GHG emissions: Renewable – solar energy. Albanian teams
VIII week	Technological options to reduce GHG emissions: Renewable – geothermal energy. Albanian teams
IX week	Technological options to reduce GHG emissions: Hydro and ocean energies. Albanian teams
X week	Technological options to reduce GHG emissions: Biomass. Albanian teams
XI week	Technological options to reduce GHG emissions (CO2 capture and storage, energy efficiency, changes in lifestyle etc). Albanian teams
XII week	Economics of Climate change. What are the Mitigation and Adaptation Costs? Albanian teams
XIII week	Climate mitigation status and experience in sectors, such as industry, transport, energy and households. Decarbonisation. Nikolic, Gagic
XIV week	Future Climate Scenarios and Proposed Solutions. Energy transition until 2050. Nikolic, Gagic
XV week	Group project presentation
XVI week	Final exam
Final week	Semester verification and marks enrolment
XVIII-XXI week	Additional and remedial classes and corrective exam term



STUDENTS' WORKLOAD PER SUBJECT	
Per week	During semester
10 credits x 40/30 = 13 hours + 20 minutes	Teaching and the Final Exam: (13h + 20 min.) x 16 = 258h + 20 minutes Necessary preparation before term starting (admin., enrolment, verification): (13h + 20 min) x 2 = 26h + 40min Total hours for the course: 10 x 30 = 300h Additional hours for preparing correction of final exam, including the taking of the exam: 15h Structure of the students' duties: 258h + 20 min.(lectures) + 26h + 40min + 15h (additional work)
Structure: 2 hours of lectures 1 hour of exercise 1 hour of practical work 9 hours 20 minutes of individual work, including consultations	
Students are obliged to attend lectures, take compulsory assignments and final exam.	
LITERATURE:	
<ol style="list-style-type: none"> Lecturing materials. Andrés Hugo Arias and Jorge Eduardo Marcovecchio, Marine Pollution and Climate Change, CRC Press 2018, ISBN 9780367781910 (55 euros) IPCC reports. (free online) IMO available free online literature GL DNV available free online literature 	

METHODS OF KNOWLEDGE ASSESSMENT AND MARKING:

- Project presentations, from 0 to 40 points;
 - Final exam, from 0 to 50 points;
 - Attendance and class activities, from 0 to 10 points;
- Passing mark is awarded if the student collects more than 50 points.

SPECIAL NOTE FOR THE SUBJECT:

All activities will be conducted in English. Lectures and exercises will be partially recorded and uploaded on the Distance Learning (DL) platform so that students may follow along from a distance.

EXPECTED LEARNING OUTCOMES:

Upon successful completion of the course, the student will be able to:

- explain causes of global warming, as well as emission trends and driving forces that are responsible for fossil fuel emissions and deforestation.
- explain climate policy tools, their theoretical merits and practical experiences
- identify technological options to reduce emissions, their barriers and costs and co-benefits.
- explain the understanding of climate mitigation in difference disciplines and the discipline's contribution to climate mitigation.
- recognize co-benefits, tradeoffs, potentials, and limitations of a wide range of climate change mitigation options, from the energy to the land sector.

QUALITY ASSESSMENT METHODS ENSURING THE DESIRED LEARNING OUTCOMES:

Survey carried out by the University, List of student attendance, Teaching process monitored by the Faculty, Analysis of the examination passing rate (Quality Management System in compliance with ISO 9001)

DATA PREPARED BY: Danilo Nikolic, Milidin Bakalli, Anisa Myrtaj, Radmila Gagić,

NOTE:



WP2 DEV 2.4: Accreditation of master program curricula

Expected Deliverable/Results / Outcomes	Work Package and Outcome ref.nr	2.1.	
	Title	Development of master program curricula	
	Type	Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report Service/Product
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	Due date	15-06-2022	
Languages	English, Montenegrin and Albanian		

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WP2 DEV 2.4: Accreditation of master program curricula

Joint study program and issuance of a joint diploma (Montenegrin Legislation)

- A study program jointly organized by two or more institutions of higher education can be accredited if:
 - The program implementation plan is presented in detail, with data for the part of the program that is carried out jointly and the parts of the program that are the responsibility of individual partner institutions;
 - Accreditation of joint programs is completed according to the same procedure as in the case of requests from individual institutions (organizational units);
 - **In the process of accreditation of joint programs of partner institutions from different countries, each institution should complete the national procedure and have a positive decision by the national accreditation bodies;**
 - **The accreditation of joint programs is preceded by a bilateral/multilateral agreement on the joint program;**
 - The application for accreditation should also contain a precise plan for the mobility of students and teaching staff, as well as the number of national and international students enrolled in the study program.
- Joint diplomas are issued to students who have completed a joint program (attended classes and passed exams) at each of the partner institutions accredited for the implementation of the joint study program. The diploma is signed by authorized persons of all partner institutions involved in the implementation of the joint study program.

Attachment:

- Program implementation plan; Bilateral/multilateral agreement on joint program; Decision of the national accreditation body for each partner institution

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WP2 DEV 2.4: Accreditation of master program curricula - Legislation

Accreditation of study programs on English (Montenegrin Legislation)

- For the organization of these studies, students and teaching staff should have the necessary level of knowledge of the English language.
- The level of language knowledge by students and teaching staff should be clearly prescribed in institutional acts, namely:
 - For students of the first and second cycle of studies, at least a certificate issued by a licensed institution, confirming the level of knowledge of the English language (at least CEF-level B2);
 - **A formal certificate of language proficiency is required for teaching staff, e.g. CEF level B 2.1, or upper secondary academic English language certificate, professional English language proficiency certificate;**
 - **As equivalent to a formal certificate for teachers, the number of papers published in journals from the SCI/SCIE/SSCI/A&HCI list in English (minimum 2), as well as the number of oral presentations in English at international conferences (minimum 3), lecturer experience in English at foreign universities or long-term academic mobility.**
- Attachment:
 - Certificates of knowledge of the English language, as well as other evidence **FOR ALL PROFESSORS (MNE & ALB)-
DEADLINE 1.8.2022.** to be sent on danilo.nikolic@ucg.ac.me

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WP3 DEV 3.1 Procurement of equipment and e-books

	Work Package and Outcome ref.nr	3.1.	
Expected Deliverable/Results/Outcomes	Title	Procurement of equipment and e-books	
	Type	<input checked="" type="checkbox"/> Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input checked="" type="checkbox"/> Service/Product
	Description	<p>This task consists of two subtasks. In order to support online/blended (distance) learning concept of new joint master program at Montenegrin and Albanian HEIs, the new state of the art equipment will first be specified according to the specific needs of the target environments (partner countries HEIs) and the program itself. The specification will consist of software (lecture capture, multimedia repository and delivery, Learning Management Platform), hardware and multimedia equipment (cameras, microphones, etc). The second subtask will consist of procurement, installation, testing and validation of specified equipment.</p> <p>Also, adequate e-books in topics of MEP&M will be purchased to support online learning process.</p> <p>A report on tendering procedures will be issued. Report shall be disseminated and incorporated into the interim and final report.</p>	
	Due date	15-03-2022	
	Languages	English, Montenegrin and Albanian	

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WP3 DEV 3.1 Procurement of equipment and e-books

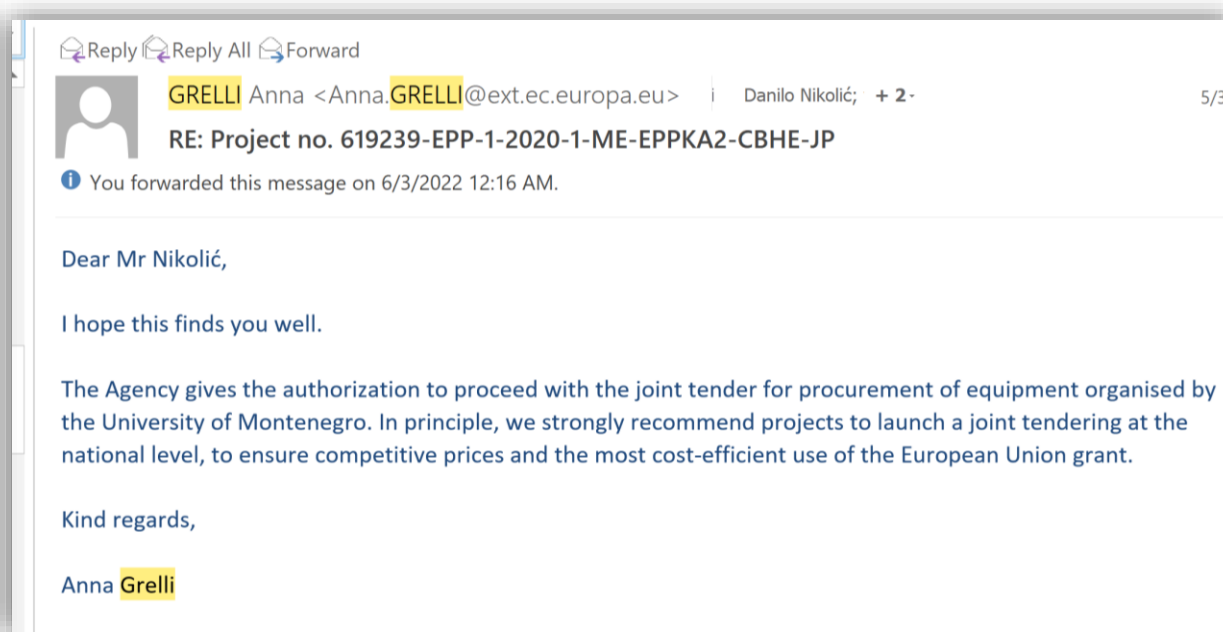
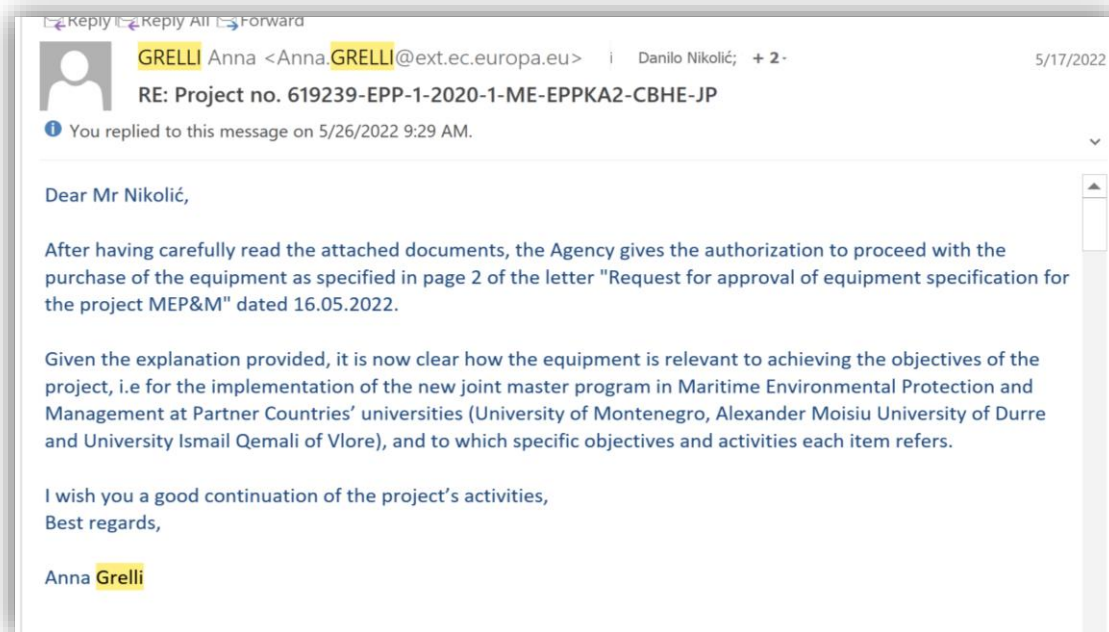
University of Montenegro	No.	Name	Description	Quantity	Unit price (excl. VAT)	Total (excl. VAT)
	1	IT equipment for distance learning				42,000.00 €
	2	Underwater equipment for seawater visual and quality monitoring				37,000.00 €
	3	E-books				4,000.00 €
	4	Air Drone for visual sea and coastal monitoring				3,000.00 €
	5	Upgrade of air quality monitoring equipment				19,000.00 €
	Total					105,000.00 €
University of Vlore	No.	Name	Description	Quantity	Unit price (excl. VAT)	Total (excl. VAT)
	1	IT equipment for distance learning				39,000.00 €
	2	Underwater equipment for seawater visual and quality monitoring				25,000.00 €
	3	E-books				3,000.00 €
	4	Air Drone for visual sea and coastal monitoring				3,000.00 €
	Total					70,000.00 €
University of Durres	No.	Name	Description	Quantity	Unit price (excl. VAT)	Total (excl. VAT)
	1	IT equipment for distance learning				39,000.00 €
	2	Underwater equipment for seawater visual and quality monitoring				25,000.00 €
	3	E-books				3,000.00 €
	4	Air Drone for visual sea and coastal monitoring				3,000.00 €
	Total					70,000.00 €

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WP3 DEV 3.1 Procurement of equipment and e-books



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WP3 DEV 3.1 Procurement of equipment and e-books



AGREEMENT

on the implementation of the joint open public procurement of equipment (herein referred to as 'Agreement') within the "Development of Regional Joint Master Program in Maritime Environmental Protection and Management" (herein referred to as 'MEP&M') project of Erasmus + programme (Project reference number: 619239-EPP-1-2020-1-ME-EPPKA2-CBHE-JP, Grant Agreement number 7988115-29/12/2020, concluded between the following contracting authorities (project partner institutions):

University of Montenegro (UoM) represented by the rector, **prof. dr Vladimir Božović**,
University of Durres "Aleksander Moisiu" (UAMD) represented by rector, **Prof. dr Ksanela Sotirofski** and administrator, **Gerald Ceka**, and
University of Vlora 'Ismail Qemali' (UV) represented by administrator, **Sajmir Xhelaj**

herein referred to as the 'Parties'.

PREAMBLE

The Grant Agreement number 7988115-29/12/2020 with the Project reference number: 619239-EPP-1-2020-1-ME-EPPKA2-CBHE-JP is concluded between the Education, Audiovisual and Culture Executive

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WP4 DEV 4.2 Development and implementation of Internal Quality Control and Monitoring Plan

Expected Deliverable/Results / Outcomes	Work Package and Outcome ref.nr	4.2.	
	Title	Development and implementation of Internal Quality Control and Monitoring Plan	
	Type	Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report Service/P roduct
	Description	<p>Internal Quality Control and Monitoring Plan will be defined that encompass guidelines for QA to be implemented throughout the project, including development of standardized templates for project deliverables, evaluation forms, internal reporting templates and reporting dynamics, external evaluation schedule and minimum selection criteria for external evaluators, and it will take up the results of the strategy implementation evaluation, etc. It will also ensure that communication and dissemination activities are implemented following high-quality standards, as well as to provide valuable input for project exploitation.</p> <p>It will enable day-to-day monitoring of the project activities, including revision of periodical technical and financial reports of each project partner that will be used as input to regular project reports. Annual QA reports will be developed by the QA and submitted to PMB. They will provide quantitative and qualitative input necessary for project implementation, especially possible amendments in implementation that will be required in order to meet project objectives in timely and efficient manner. It will also serve as basis for preparing plans for continuation of strategic implementation processes initialized during the project lifetime.</p> <p>Plan will be developed and adopted, and implemented throughout project lifetime.</p> <p>Plan will be disseminated and incorporated into the general overview report.</p>	
	Due date	14-01-2024	
Languages	English, Montenegrin and Albanian		

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WP6 DEV 6.4 Periodic and final reports to EACEA

Expected Deliverable/Results / Outcomes	Work Package and Outcome ref.nr	6.4.	
	Title	Development of master program curricula	
	Type	<input type="checkbox"/> Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input type="checkbox"/> Service/P <input type="checkbox"/> roduct
	Description	<p>Following the rules set in the GA, Project Coordinator will submit two reports to EACEA during the project implementation – Interim and Final reports.</p> <p>All project partners will take part in its completion by providing reports for their institutions. Also, they will be in day-to-day communication with the Coordinator until the end of the reporting. The Coordinator may choose to make on-site visits to partners, if deemed necessary for meeting reporting (and other contractual) obligations.</p> <p>As part of the final report, obligatory audit report will also be submitted. Audit will be carried out by an independent external auditor, with experience in auditing internationally funded projects.</p> <p>The Coordinator will submit the reports to EACEA, and also inform project partners on feedback received.</p>	
	Due date	14-01-2024	
Languages	English		

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Travel proposals



Activities		Due date	Outcome	Type of event	Travel
DEV	Title				
6.2	<p>Project meetings</p> <p>During the project lifetime, 3 PMB two-day meetings will be held. First meeting will be held during Kick-off meeting at P1 (Kotor), the <u>second meeting at the end of first project year at P4 (Ljubljana)</u>, and the third meeting at the end of the final project year at P1 (Kotor).</p> <p>2-day meeting (+ 2 days spent in traveling, 4 days in total) at P4 for 3 team members from each partner institution.</p>	1.2024	Report	2 x 2 days meeting	Midterm meeting LJUBLJANA/ Nice Up to Oct 1 st 2022 End of project meeting KOTOR/ Cadiz
3.4.5	<p>Know-how transfer related to organizational and procedural aspects of online/blended learning courses development as well as innovative teaching and learning methods using e-learning techniques</p> <p>The training will last 2 days and will be hosted by P2 (Durres). At least 15 representatives of teaching staff from Montenegrin and Albanian partners. Mobility funding is specified in detailed budget form.</p> <p>The trainers will be at least 3 representatives from P4. Reports on each training will be produced, disseminated and incorporated into the general overview report.</p>	9.2022	Report	2 days training	Durres After DL equipment is installed and running ???
2.2	<p>Development of teaching materials and methodology</p> <p>At the end of DEV 2.2 there will be organized a 2-day meeting at P2 (Durres). At least three team members from HEIs and two team members from non-academic partner institution will participate. A report will be delivered.</p>	12.2022	Report	Meeting	DURRES/ Ljubljana ???
2.3	<p>Development of e-lectures</p> <p>At the end of DEV 2.3 there will be organized a 2-day meeting at P3 (Vlore). At least three team members from HEIs and two team members from non-academic partner institution will participate. A report will be delivered.</p>	4.2023	Report	Meeting	VLORE ???
X.X	Meeting before start up of master degree MEP&M. Overview of preparedness for MSc MEP&M	X.2023	Report	Meeting	CADIZ if end of meeting in KOTOR?
2.5	<p>Start-up and self-evaluation of master program</p> <p>It is expected that at least 6 teaching staff from EU HEIs will participate in introductory lessons and trainings for 3 days at each Albanian and Montenegrin HEI. A report on start-up of program as well as on introductory lessons and trainings will be issued.</p>	1.2024	Report	Event	Kotor/Durres/Vlore
X.X	Bilateral meetings	1.2024	Report	Meeting	All partners except EU to EU



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THANK YOU FOR YOUR ATTENTION!

Prof. Dr. Danilo Nikolić
Faculty of Maritime Studies Kotor, University of Montenegro

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